

### AMENDMENTS TO THE CLAIMS

1. (Currently amended) An isolated or recombinant immunogenic polypeptide comprising a ~~Lawsonia spp. SodC Polypeptide, a variant, or a truncated variant thereof, wherein said variant or truncated variant mimics or cross-reacts with a B-cell or T-cell epitope of Lawsonia spp. SodC Polypeptide~~ the amino acid sequence encoded by the SodC-encoding nucleotide sequence of pALK14 (ATCC 207155).

2. (Cancelled)

3. (Cancelled)

2 4. (Currently amended) The isolated or recombinant immunogenic polypeptide of claim 1 wherein the ~~Lawsonia spp. is L. intracellularis~~ amino acid sequence is set forth in SEQ ID NO: 1.

Claim 5-13 (Cancelled)

3 14. (Currently Amended) The isolated or recombinant immunogenic polypeptide of claim ~~13~~ 1 consisting essentially of ~~the amino acid sequence of SEQ ID NO: 1 or the amino acid sequence encoded by the SodC-encoding nucleotide sequence of pALK14 (ATCC 207155).~~

Claim 15-20 (Cancelled)

4 21. (Currently Amended) An immunogenic A-vaccine composition for the prophylaxis or treatment of infection of an animal by Lawsonia spp., said vaccine composition comprising an effective amount of an immunogenic component comprising an- the isolated or recombinant polypeptide according to Claim 1 comprising having at least about 70% sequence identity to the amino acid sequence set forth in SEQ ID NO: 1, or at least about 50% sequence identity to amino acid residues 1 to 42 of SEQ ID NO: 1 or an immunogenic homologue, or derivative thereof which is immunologically cross-reactive with Lawsonia intracellularis, and one or more carriers, diluents or adjuvants suitable for veterinary or pharmaceutical use.

22. (Canceled)

5 23. (Currently Amended) The immunogenic vaccine composition according to claim 21 wherein the isolated or recombinant polypeptide consists essentially of ~~comprises the amino acid sequence set forth in SEQ ID NO: 1 or the amino acid sequence encoded by the SodC-encoding nucleotide sequence of pALK14 (ATCC 207155).~~

Claims 24-48 (Cancelled)

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**6** ~~49.~~ (Currently amended) The ~~vaccine~~ immunogenic composition of claim ~~23~~,<sup>5</sup>  
wherein the isolated or recombinant polypeptide consists essentially of the amino acid sequence  
of SEQ ID NO: 1.

**Claims 50-57 (Cancelled)**